

BUTDF
4.1V2

REFERENCE 16

**Ecology and Environment, Inc., September 1, 1998
through September 4, 1998, Black Butte Mine Site
Inspection Field Logbook, Book 2 of 2, 25 pages.**

USEPA SF



1322306

1.5

REFERENCE 16

BLACK BUTTE
MINE
SI

ALL INFORMATION
HEREIN IS UNCLASSIFIED
DATE 10-22-01 BY SPK/NF

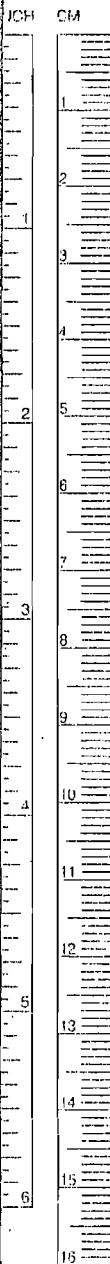
Book 2 of 2

130173

USEPA SF



1088635



MEASUREMENT CONVERSIONS

IF YOU KNOW MULTIPLY TO FIND
BY

LENGTH

inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles

WEIGHT

ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds

VOLUME

fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.264	gallons (U.S.)

TEMPERATURE

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times .555$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$$

Inches	Decimals of foot	Millimeters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4.7625
1/4	.0208	6.3500
5/16	.0260	7.9350

3/8	.0313	9.5250
1/2	.0417	12.700
5/8	.0521	15.875
3/4	.0625	19.050
7/8	.0729	22.225

1"	.0833	25.400
2"	.1667	50.800
3"	.2500	76.200
4"	.3333	101.60
5"	.4167	127.00

6"	.5000	152.40
7"	.5833	177.80
8"	.6667	203.20
9"	.7500	228.60
10"	.8333	254.00
11"	.9167	279.40
1 foot	1.0000	304.80

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER



Name Brian B. THE Mine Site Inspection

Cottage Grove, Oregon

Address Ecology Environment, Inc.

Seattle, Washington

Phone _____

Project Book 2 of 2

"Rite In the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

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CONTENTS

- 9/1/98 TDD-98-04-0011 P.D.L. characteristics
 OREGON SITE Safety meeting at hotel in
 Eugene, conducted by Alastair Turner,
 Project Volunteer Bill Richards, stampers
 Alexis NAKAMURAKI and Tim Maynes
 participating.
 Tim Maynes, Alexis NAKAMURAKI, &
 Alastair Turner will begin domestic well
 sampling while Bill Richards continues
 to work access issue at the lessors office
 in Eugene.
 0840: Safety meeting over. Safety Plan
 signed by all team members.
 0850: Tim, Alastair & Alexis depart for
 Cottage Grove to begin domestic well sampling.
 Bill Richards to the office.
 0930: Arrive Cottage Grove and buy hardware & ice
 1005: Arrive near site of Peeler's residence.
 1020: ST residence on W. side of London Rd.
 coming out of site is Matt Peeler Jr.
 He said that we could collect spring
 water just from his property just from near
 the road. He gets supply with the farm
 the same spring but on his property.
 Although he said he does not charge
 it and only uses it for bathing.
him up

a(1e) TDS: 98-04-0004 HAN CD44015100

He said that we leaves water from his parent's place. He also indicated that we could have access to Granite Creek.

As he owns property on both sides of Coulson Rd. His nephew fishes in front of house and

1110: Sent MATT on London Rd. He said that

Leanne N. in Belkile would allow a water sample to be collected from their property.

Although he indicated that he would never be with us as they don't want anybody (stranger) on their land.

- we knocked on the Wales family residence but no one was home. Will try later.

1120: Matt Parker takes Alasdair & Tim to Belkile residence for water sample.

(Parker Home) Matt indicates that the Belkile likely only use the water for washing. He owns this residence

sample # 98BBDW101W: MS/10

also collected here. Sample time 1120.

- Matt indicated that we could collect a water sample from the spring above his parent's house.

Tim up

a(1e) TDS: 98-04-0004 HAN CD44015100

Belkile residence is located on top of a hill with ① water. We will need to sample this spring after the site access issue is sorted out (Parker residence).

1200: Matt says that we talked with a

forester from Meyer houses who indicated that they are just about to go to a Level 4 fire ban which would mean obtaining a permit for any work conducted on their property.

1225: Bill Richards shows up. He indicated that we have obtained access. Begins to sweep him up to speed with residential well sampling effort.

Weather: Hot & sunny ~ 95°F, little to no wind

- Bill & Alasdair will collect sediment samples - Alasdair & Tim to continue well sampling.

1300: Alasdair & Tim depart for well sampling.

1300: Stopped at the McHaus residence (Matt's sister). No one home.

Tim up

9/1/98 TDD 98-04-0004 PAN: CO040151KO
1326: Stopped at Henry & Kathy Benans

Kathy will allow us to collect a well sample. Henry called while we were there and asked Kathy for take our BUSINESS CARD.
Sample # 98BBDW036W TIME: 1325
2 photos taken of well head facing W.

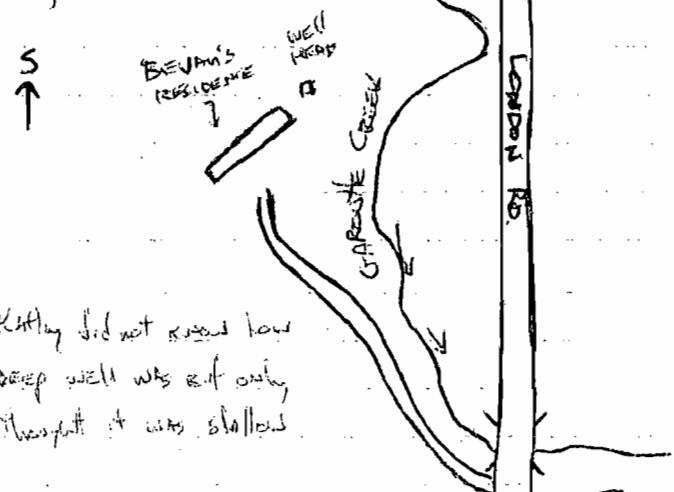
Location marked by ② on tape.

- 5 people outside water, 2 adults & 3 chds.

KATHY & HENRY BENANS 541.942.1631

71159 London Rd.

Cottage Grove, OR 97424



- Kitting did not know how deep well was but only thought it was shallow.

Tom

9/1/98 TDD 98-04-0004 PAN: CO040151KO

1400: Arrive at Wab's Residence - they are from Moft, 5 people drove from this well 2 adults & 3 kids

Sixth Wales

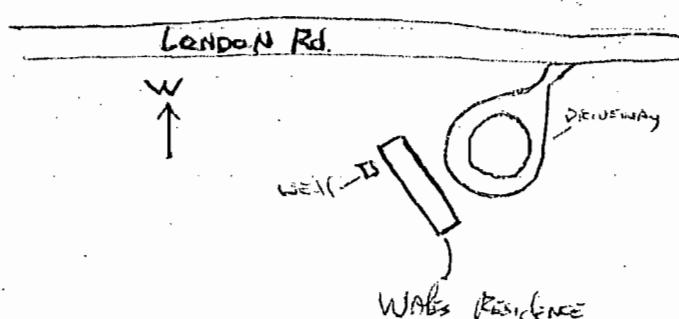
?1125 London Rd.

Cottage Grove, OR

97424

541.767.0576

Sample # 98BEDW036W TIME: 1410



- well located in small shed behind vehicle
- Susan said that warnings about mercury in fish had been posted or photos # 344 taken facing NORTH with well house in background.
(WELL APPEARS slightly rusty)
- Location marked on topo with ③
- Susan did not know how deep the well was only that it cuts shallow.

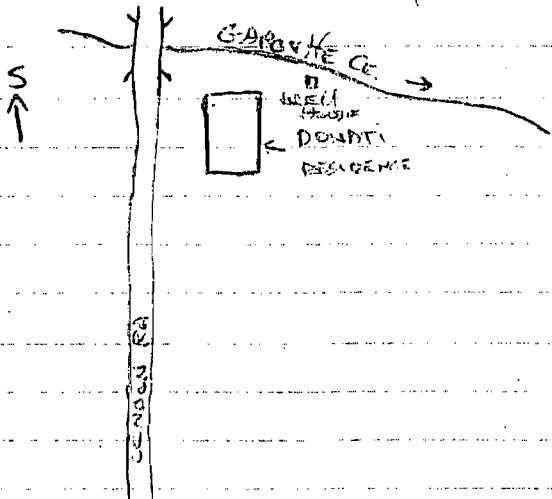
Tom

COTTAGE LAKE IN THIS PT.

5

9/1/98 TDD 98-04-0004 PAN CDO 1515100
 Rudy Donati
 7136 Larch Rd.
 Cottage Grove, OR. 97424
 SH1,942, 3251

Location #4 marked on topo.



SAMPLE # DEEPW0461 TIME: 1455

- Rudy has a well log that showed the completed well depth is 70 feet.
- 2 photos taken #B516 facing south with well house in background.

9/1/98 TDD 98-04-0004 PAN CDO 1515100

Rudy Walton

7136 Larch Rd.

Cottage Grove, OR. 97424

SH1,942, 5435

SAMPLE # 9858DW0562 TIME: 1525

- this well serves 4 adults at 2 homes
- marked with #5 on topo. map
- photos #516 taken facing south
- Rudy also indicated that Cottage Grove Lake has been very short recently in April before.

Donati

1 Walton
 2 RESIDENCES

- ① Rudy's house
- ② Rudy & his wife

9/1/98 TDO: 98-C4-0001 PHM: CDO/OS/RC

- 1515: Depart Webster residence after
Richards & Turner show up after
obtaining segment of surface water sample
- Depart Coffey Group for Eugene.

RESIDENTIAL WELL SAMPLE SUMMARY FOR 9/1/98

- (#1) Lorraine Anita Belile 983BDW01G03 / 98364100¹
(#2) Henry & Hattie Bevans 983BDW02G04 / 98364100²
(#3) Susan Wiles 983BDW03G05 / 98364100²
(#4) Judy Donati 983BDW04G06 / 98364100³
(#5) Rudy Worlton 983BDW05G07 / 98364100⁴

- (#1) Sample time: 1120 • MS/D collected here
- No plumes
- Spender water sampled from hose
use
- 2 adults drink water for washing clothes
and bathing
- Matt Paster owns this house trailer and
rents to the Beliles

- (#2) Sample time: 1325 - plumer 1/2 taken facing west
- 2 Adults / 3 children use well
- Clifford Bush owns house, rents to Bevans
- purged holding tank for 12 minutes prior
to sampling; sampled from hose

turn up

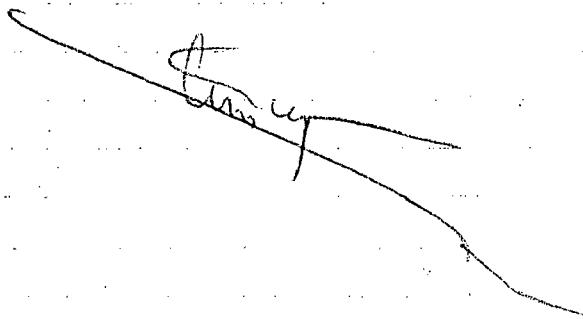
9/1/98 TDO: 98-C4-0001 PHM: CDO/OS/RC

- (#3) Sample time: 1410 - plumer 3/4 taken facing North
- 2 Adults / 3 children use well
- House owned by Matt Paster and
rents to Webster family
- purged holding tank for 12 minutes
prior to sampling from hose

- (#4) Sample time: 1455 - plumer 5/6 taken facing south
with well house in background
- 1 Adult uses this well
- well is 20 feet deep
- purged holding tank for 12 minutes
prior to sampling from hose

- (#5) Sample time: 1525 - plumer 7/8 taken facing south
- 4 Adults in 2 separate residences use
this well
- purged holding tank for 12 minutes
prior to sampling from hose

SEE TOP MAP FOR SAMPLE LOCATIONS



9/2/98 100-98-04-001 PAN: C00401510

CEO: S. Lepinski will take Hildene Turner
photo on field job.

SCE safely w/o hold in hotel parking lot

- Lepinski & Myers will travel to College Green
& continue Narragansett sampling. Richards
& Nickum will go to Agency Dept.
of Environmental Quality (DEQ) & meet
us near Wiff Pardon's residence ~1045-1100.

CERS: Lepinski & Myers deposit fix College Green

ERS: Lepinski & Myers review & Donatti residence
to gather more info from well log.

OWNER: Ray Lane (original owner) Judy Iscurrat owner

T 23 S 12 3 63 section 9

Depth at which water was first found: 55'
static level 7' below land surface

diameter of well below static: 6"
completed well: 70'

Top soil 0 - 1 ft.

B.M. clay reddish-mud gravel 1 - 14

Light gray comp. 14 - 30

Light blue-green comp. 30 - 50

Dark gray comp. 50 - 70 (screened intervals)

work stopped & finished 9/8/98

Tim

9/2/98 100-98-04-001 PAN: C00401510

DRILLER: Casey Tones Well Drilling Co., Inc.
37115 Ironwood Rd.
Reedsport, OR

CERS: Report Donatti's residence

try to contact Michael's former wife in
Germany & get some info about her

ERS: Greg & Vicki (Rudy did not know them)

(last name) were not home. Rudy tried
to call them for us. This is the house
on the cliff above Rudy's house on the
E. side of Lunder Rd.

CEO: Anne Ginsburg residence

JANET F. BARRY OAKS (renter) (leaving in 3 months)

71277 London Rd.

College Green, OR

541, 942, 1992

* use house + well log for this location

- REC-0212A Power GFS file - DUGGEE GFS

- 2 adults & 2 children drink water

(10) 98BBPW000W / 2836410F

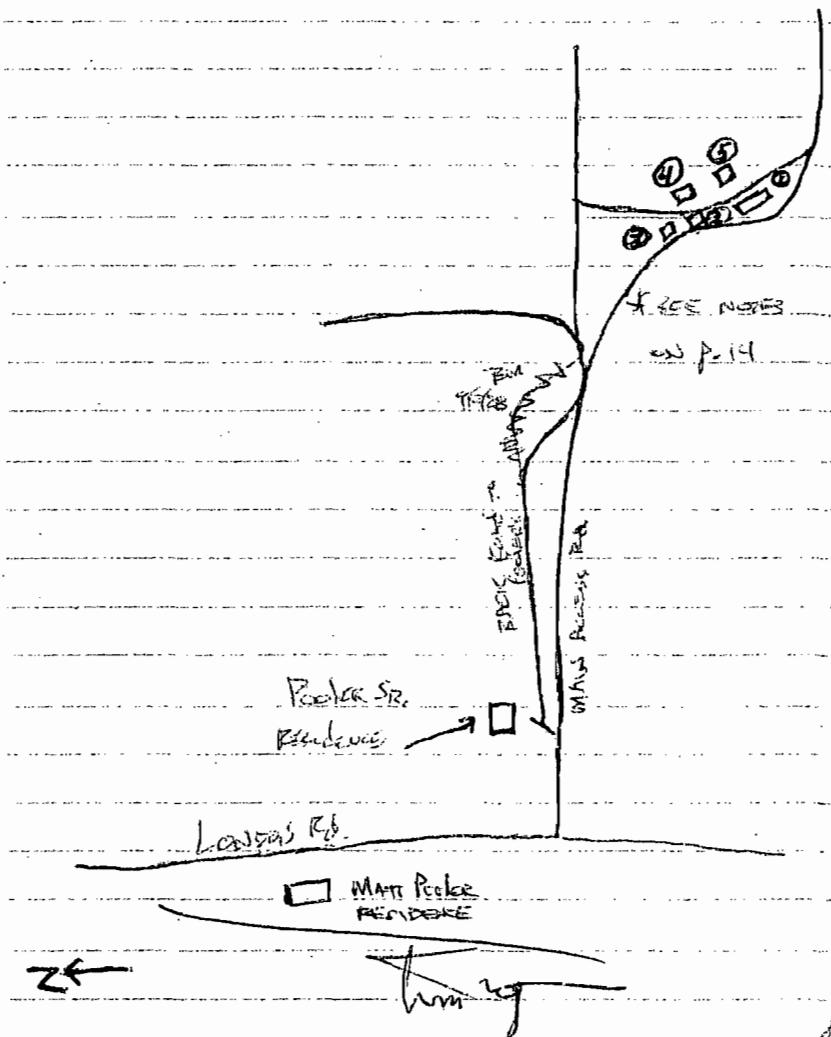
* payed entire holding tank price to
stop log - Plates 9 & 10 facing North

Tim

9/2/98 TDS 98-04-0004 PHM COOYOLISKO
 Grangeburg (HARVEY)
 928 Pinson Ct.
 Eugene, OR 97405

9/2/98 TDS 98-04-0004 PHM COOYOLISKO
 (SOS). Lipinski & Mayes find a spigot
 that pedaled water when turned on.
 IN area of delapidated 3 bds.

- 1050: Report CHAS sampling location to meet Ruthard & NAKAMURA
 1055: rental truck of by Peeler Sr., home
 Lipinski & Mayes working for Ruthards
 & NAKAMURA
 1100: Ruthards & NAKAMURA ARRIVE
 1105: Ruthards & Mayes talk w/ Michael Peeler
 & his wife. Return to van at 1130
 * we saw there used to be a ground water
 well on the same site that now has
 a bucket over it.
 Its location is approximately at the
 intersection of the 3 on-site roads.
 Mr. Peeler said that it was super-high
 in 1980 (just replaced).
- 1140: lunch
- 1220: back done, Lipinski & Mayes will
 search for well Mr. Peeler spoke of.



9/2/98 TDD 98-09-0001 PN: C064051RS

Building description of water location

- (#1) appears to be old stone structure
- (#2) dilapidated bldg. (roof falling in)
- where, water appears to be a natural spring
seep, issuing a fine jet stream of water.
- (#3) small standing bldg. - possibly for storage
sheds
- (#4) location where spring exits from water
hence located inside #3 well is some rock
debris resting at rear of bldg. likely the
old laundry. Next to spring are 2 cement drains
~ 5" ID & a 5" above ground with springs issue
below ground.
- (#5) standing bldg. = unknown

Sample time: 1315 photos (1412 TAKEN)

facing E. with spring being
at N. end of bldg. #4

98BBDW0764/98561106

thin top

9/2/98 TDD 98-09-0001 PN: C064051RS

1400: Step top (Mehan residence) & obtained

sample (#8) 98BBDW0764/98564108

Mr. Mehan said the well is 82' deep

Well built in 1982.

Cliff Bush owner photos 12/7/98

Rough Patched interior taken

71153 London Rd.

Cottage Grove, OR 97424

- masonry on top with (#)

- 2 adults & 1 child claimed water

1405: Depart Mehan residence for background
location sample

Note: No digging necessary, spring right off well

1405: ARRIVE FARM BACKGROUNDSAMPLE SEE TOPS.

WRAP Location (#) 98BBDW0764/98564108

Sample time: 1430

- well is 92' deep

thin top ERIN JUANITA RASMUSSEN

72076 Rouse Rd. S.

Cottage Grove, OR 97424

GPS, corner file: R09217A DWG&W GES

- plowed well for

- 1 adult drill water at this location

- photos (5/16 TAKEN facing NW

- Sampled through hole

thin top

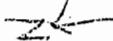
9/2/98 TDD 48-01-004 PAB CDP91015100

Specimens of Dab samples collected today

(A10) Grassberg Ave - Oats base fragments

Wet hole

OATS
House



LONDON Rd

tiny

9/2/98 TDD 48-01-004 PAB CDP91015100

(A7) 2nd 21st 22nd Rd. S for stretch

(A8) Melans residence



possible - man trailer (residence)

LONDON Rd.

trailer w/ shop has well under
front porch

tiny

18

9/2/98 TDD 98-C4-0001 PAN CHOCOLATE

(109)

- well has been drilled
- assessment course

ROSE RD 5.

N
↑

COTTON

Thru top

19

9/2/98 TDD 98-C4-0001 PAN CHOCOLATE

cont'd. from pg. 15 - DRIVE BACK ON SITE AT 1430

(2135): Richards said that he had forced
well into bottom of hole.

1500: All of cores above sit well and
attempt to force cap off.

1600: After consultation with Richards
regarding well depth ($> 150'$) he
requested Sipmex & Whipples to
build a $\frac{1}{2}$ volume piston to stoppling.
Well has 6" steel casing with
water level to the top

(1645): well stopped at 1645 after
36 liters purged by test flow
biters. Sample depth of 66'.
Sample ID: 98BROWNSW/98304109

1650: placed #16 THERM facing east of
well

1700: DEPART SITE

1750: ARRIVE HOTEL

Thru top

9/3/11 TDD 98-04-004 ANN CD04015100

0800: Stop in Eugene for lunch food, ice, & fuel for vehicles.

0730 Arrive on site

Lipinski & Mayer will take Adit samples & Field Peckers spring to be sampled.

0855: Lipinski & Mayer's depart for Adit sampling.

1010: Arrive Adit

1015: Adit SW sample collected
98364121 / 9883MA01SW

1020 Adit sediment sample collected

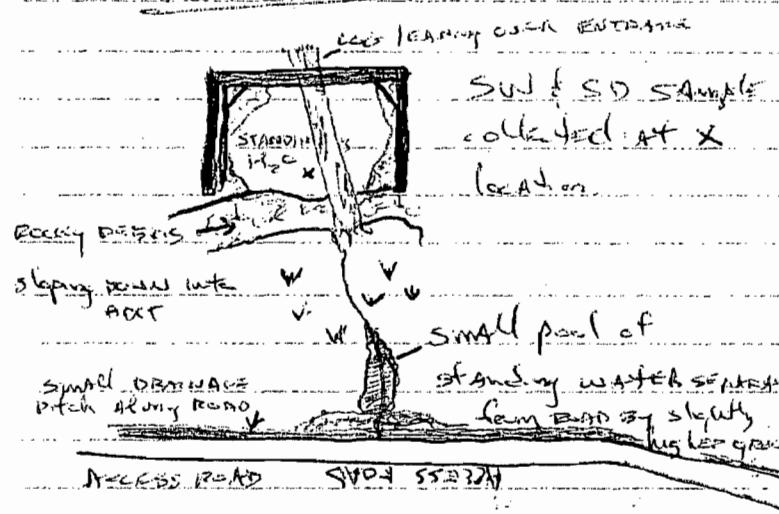
98364129 / 9883MA01SD

- photos 17 & 18 SW
- photo 19 general Adit shot
- photo 20 sampling placed on Adit
- photo 21 shot from adit looking out AT DAMAGE AREA
- photo 22 taken from damage ditch along ESD towards Adit
- photo 23 culvert that damage ditch flows to UNDER ACCESS ROAD

lmj

9/3/11 TDD 98-04-004 ANN CD04015100

Adit sketch



* standing water ~ 1' deep in Adit shaft

* SEDIMENT DEPOSITS - Tanish green/brown
muck

* A culvert exists ~ 100' downstream from Adit that drainage ditch appears to flow to. Culvert runs under access road.

1040: Lipinski/Mayer's depart Adit

1055: Lipinski/Mayer arrive @ Budget truck

Lipinski/Mayer and ETS 2 sample positions for Peckers/Nielsen sulfide & then travel to Adit. Same power file MT1 & MT2 location & ID.

lmj

28

9/3/98 TDO: 98-04-001 PAN: CD04015100

1120: Lipinski & Mayers deposit for GFS Adult

1155: ARRIVE ADLT FOR GFS PENDING

MAOL location ID for Adlt

1150: Lipinski & Mayers arrive just

up the gate to locate flagging
& spring.

1245: Lipinski & Mayers arrive @ Budget Yards
After unsuccessfully searching fenced area
where Roeter's spring water comes
from. No samples.

1250: Lunch

- After lunch Lipinski & Mayers will
attempt to obtain water sample from
the Roeter's residence.

1325: Lipinski & Mayers report for Roeter's

1330: ARRIVED Roeter - Mrs. Roeter will allow
us to collect water sample

98364112 / 98BB5P01GW

Sample time: 1400

* Sampled from hose - allowed it to
puge/run for ~ 10 minutes.

photo 24 - Roeter's sampling location

photo 25 - close up of Roeter's sampling

THUR

9/3/98 TDO: 98-04-001 PAN: CD04015100

(location w/ sample. End of roll #1 for
Lipinski & Mayers)

1405: DEPART Roeter's for background soil
down Weyerhaeuser Rd.

NOTE: New roll of film loaded: 15

5 pictures will not be valid - nor
loaded properly.

WEYERHAUSER Rd. is watered
"NO DROWNING" - fine, very coarse
grain for LEVEL 4 fire danger.

- Will consult w/ PM on alternative plan.

1420: ARRIVE for other background location.

From bridge we made it ~ 5 miles

before road got impassable. We

will walk another 500 feet for
samples. 1 sub-surface, 1 surface

1430: SAMPLE 98364152 / 98BB3B601SS
- collected w/ sterile plastic spoon/ rocky soil

1435: SAMPLE 98364154 / 98BB3B601SB

GFS Location ID: BK

photo 6 TAKEN of surface location

photo 7 taken of sub-surface location

- collected w/ shovel, same description 2' depth

THUR

9/3/98 TDD: 48-04-004 PAN: CDOY01SIKO

1510: MEET AT Sampling locations Richards & Niemannbalkar were at when we left
Lipinski well GPS locations.

INTOS Location ID

INTOS Location ID

1540: MEET Richards & Niemannbalkar near
on-site well area for sample packaging
and evaluate sample collection.

1630: DEPART site to collect background surface
sample near WEYERHAEUSER GATE. Will
collect on west side of Condon Rd.
~20 ft. in west.

(640: Sample 983G4153) reserved

collected

photo E of sample location

- Description is brownish, organic

(some w/ some pebbles)

- collected w/ sterile plastic

spoon

(650: DEPART SITE AREA & cottage grove

1750: ARRIVE hotel

9/4/98 TDD: 48-04-004 PAN: CDOY01SIKO

OBIS: in hotel parking lot for sample
preparation (i.e., REICING, etc.)

- will return Anger to central agency

- NACKNIMBALKAR will DRIVE

taxi back to Seattle, Richard,
& Mayers to fly to Seattle.

- Richards staying in Seattle, Mayers
will travel on to Anchorage.

Sources:

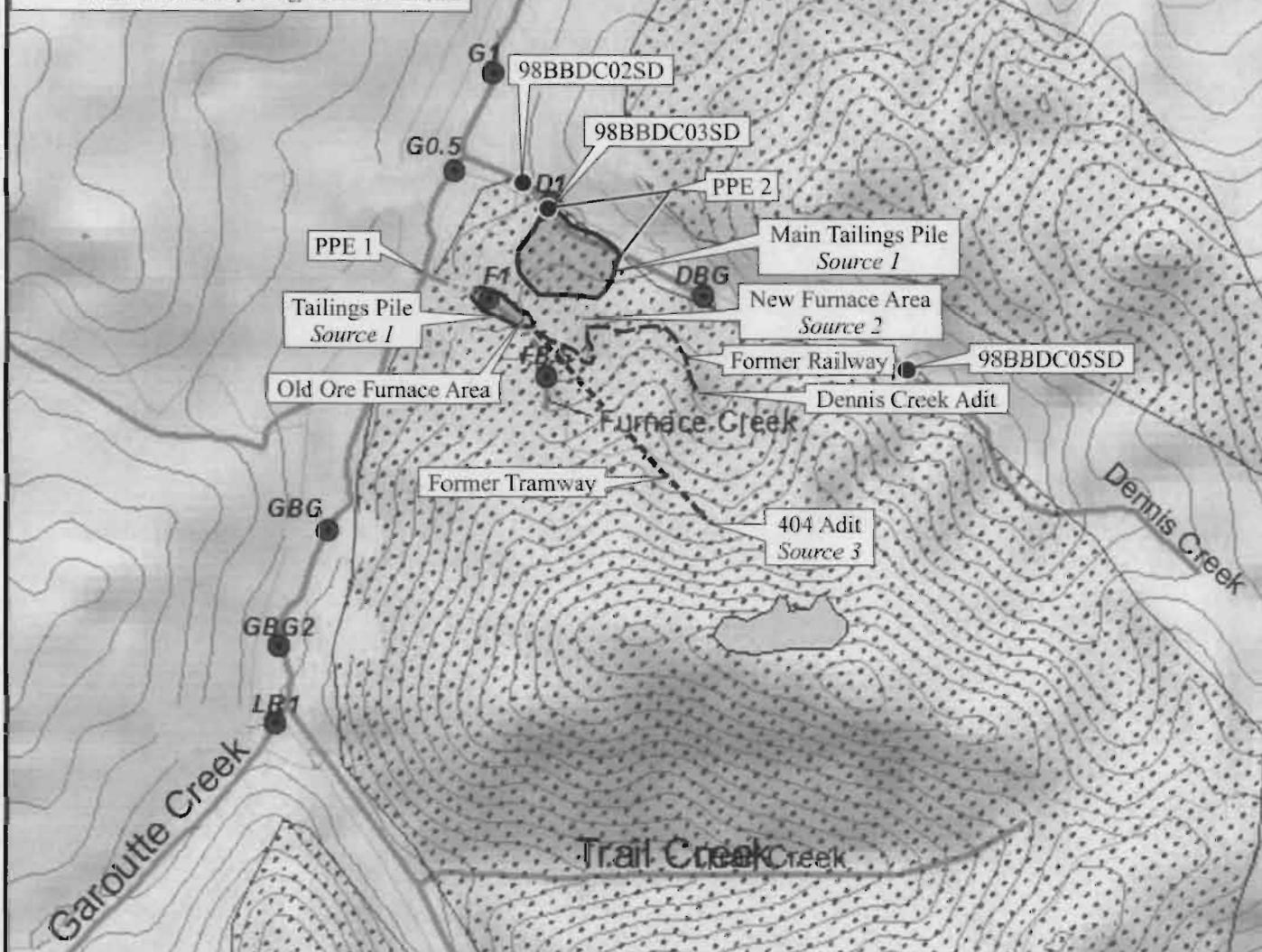
- Ref. 4 Ecology & Environment Inc., April 1998, Black Butte Mine, Site Inspection Report, TDD: 98-04-0004, prepared for the U.S. Environmental Protection Agency (locations of black sample points).
- Ref. 20 Thoms, Bryn, R.G., August 21, 2008, WR Cleanup Program, State of Oregon, Department of Environmental Quality memorandum to Max Rosenberg, R.G., WR Cleanup Manager regarding Black Butte Mine Mercury Loading Assessment Results, (base map and locations of red sample points).
- Ref. 29 United States Environmental Protection Agency, April 13, 2007, memorandum from Kathy Parker, On-Scene Coordinator, and Carl Kitz, On-Scene Coordinator regarding Request for a Removal Action to be Conducted at the Black Butte Mine, Cottage Grove, Oregon to Daniel D. Opalski, Director, Office of Environmental Cleanup (locations of the New Furnace Area, the Old Ore Furnace Area, the Former Tramway, Former Railway, Dennis Creek Adit, 404 Adit, Tailings Pile, and Main Tailings Pile).

Note: Sample points G2, G0.5, G1, F1, and GBG (from Reference 20) have been repositioned in the streams by Ecology and Environment, Inc.

"Source" labels added by Ecology and Environment, Inc.

Key

- Sample Point from Reference 4
- Sample Point from Reference 20
- PPE Probable Point of Entry



ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BLACK BUTTE MINE
Lane County, Oregon

Figure 1
SITE MAP

Date:
7-14-09

Drawn by:
AES

10:START-3\09020006\Fig 1

Note: This page intentionally left blank.